

09/636,259

CAS, B, 2115  
US Patent 11 4/23/02

=> file ca

=> s (gbssi or granule(w)bound(w)starch(w)synthase? or granule(w)bound(w)starch(

L1 211 (GBSSI OR GRANULE(W)BOUND(W)STARCH(W)SYNTHASE? OR GRANULE(W)BOUND(W)STARCH(W)SYNTHETASE?)/AB,BI

=> s (branching(w)enzyme? or bei)/ab,bi

L2 1483 (BRANCHING(W)ENZYME? OR BEI)/AB,BI

=> s (antisense? or anti(w)sense? or cosuppress? or sense(w)suppress? or mutant?

L3 378001 (ANTISENSE? OR ANTI(W)SENSE? OR COSUPPRESS? OR SENSE(W)SUPPRESS? OR MUTANT? OR MUTAGEN? OR MUTAT? OR RIBOZYME?)/AB,BI

=> s l1(10a)l3

L4 42 L1(10A)L3

=> s l2(10a)l3

L5 72 L2(10A)L3

=> s l4 and l5

L6 1 L4 AND L5

=> d l6

=> d l6 ab

=> s (decrease? or reduce? or reduction?)/ab,bi

L7 2824221 (DECREASE? OR REDUCE? OR REDUCTION?)/AB,BI

=> s l4 and l7

L8 9 L4 AND L7

=> s l5 and l7

L9 22 L5 AND L7

=> s l8 or l9

L10 30 L8 OR L9

=> file biosis

=> s l10

L11 29 L8 OR L9

=> dup rem

L12 42 DUP REM L10 L11 (17 DUPLICATES REMOVED)

=> d l12 1-42 ti py

=> d l12 14 16 17 20 21 24 27-30 34

L12 ANSWER 16 OF 42 CA COPYRIGHT 2002 ACS DUPLICATE 8  
 AN 129:214130 CA  
 TI Consequences of \*\*\*antisense\*\*\* RNA inhibition of starch  
 \*\*\*branching\*\*\* \*\*\*enzyme\*\*\* activity on properties of potato starch  
 AU Safford, Richard; Jobling, Steve A.; Sidebottom, Chris M.; Westcott, Roger  
 J.; Cooke, David; Tober, Karen J.; Strongitharm, Barbara H.; Russell,  
 Alison L.; Gidley, Michael J.  
 CS Biosciences Division, Unilever Research, Sharnbrook, MK 441LQ, UK  
 SO Carbohydr. Polym. (1998), 35(3-4), 155-168  
 CODEN: CAPOD8; ISSN: 0144-8617  
 PB Elsevier Science Ltd.  
 DT Journal  
 LA English

L12 ANSWER 17 OF 42 CA COPYRIGHT 2002 ACS DUPLICATE 9  
 AN 128:166514 CA  
 TI Detection of the starch modifying gbss-antisense construct in transgenic  
 potatoes  
 AU Hassan-Hauser, Christine; Mayer, Walter; Hoertner, Hermann  
 CS Abteilung Biochemische Analytik, Bundesanstalt Lebensmitteluntersuchung  
 -Forschung, Vienna, A-1090, Austria  
 SO Z. Lebensm.-Unters. Forsch. A (1998), 206(2), 83-87  
 CODEN: ZLFAFA; ISSN: 1431-4630  
 PB Springer-Verlag  
 DT Journal  
 LA English

L12 ANSWER 20 OF 42 CA COPYRIGHT 2002 ACS  
 AN 126:303832 CA  
 TI Control of plant metabolism and seed and storage organ composition using  
 ribozymes  
 IN Zwick, Michael G.; Edington, Brent E.; Mcswiggen, James A.; Merlo,  
 Patricia Ann; Guo, Lining; Skokut, Thomas A.; Young, Scott A.; Folkerts,  
 Otto; Merlo, Donald J.  
 PA Ribozyme Pharmaceuticals, Inc., USA; Dowelanco; Zwick, Michael G.;  
 Edington, Brent E.; Mcswiggen, James A.; Merlo, Patricia Ann; Guo, Lining;  
 Skokut, Thomas A.; Young, Scott A.; et al.  
 SO PCT Int. Appl., 154 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA English  
 FAN.CNT 1

|      | PATENT NO.      | KIND | DATE     | APPLICATION NO. | DATE     |
|------|-----------------|------|----------|-----------------|----------|
| PI   | WO 9710328      | A2   | 19970320 | WO 1996-US11689 | 19960712 |
|      | WO 9710328      | A3   | 19970515 |                 |          |
|      | US 6350934      | B1   | 20020226 | US 1996-679645  | 19960712 |
| PRAI | US 1995-1135P   | P    | 19950713 |                 |          |
|      | US 1994-300726  | A2   | 19940902 |                 |          |
|      | WO 1996-US11689 | W    | 19960712 |                 |          |

L12 ANSWER 24 OF 42 CA COPYRIGHT 2002 ACS DUPLICATE 11  
 AN 124:82247 CA  
 TI Introduction of sense and \*\*\*antisense\*\*\* cDNA for \*\*\*branching\*\*\*  
 \*\*\*enzyme\*\*\* in the amylose-free potato \*\*\*mutant\*\*\* leads to  
 physico-chemical changes in the starch  
 AU Flipse, E.; Suurs, L.; Keetels, C. J. A. M.; Kossmann, J.; Jacobsen, E.;  
 Visser, R. G. F.  
 CS Grad. Sch. Experimental Plant Sci., Agric. Univ., Wageningen, 6700 AJ,  
 Neth.  
 SO Planta (1996), 198(3), 340-7

CODEN: PLANAB; ISSN: 0032-0935

DT Journal  
LA English

L12 ANSWER 28 OF 42 CA COPYRIGHT 2002 ACS DUPLICATE 13

AN 122:206895 CA

TI Field evaluation of transgenic potato plants expressing an  
\*\*\*antisense\*\*\* \*\*\*granule\*\*\* - \*\*\*bound\*\*\* \*\*\*starch\*\*\*  
\*\*\*synthase\*\*\* gene: increase of the \*\*\*antisense\*\*\* effect during  
tuber growth

AU Kuipers, Anja G. J.; Soppe, Wim J. J.; Jacobsen, Evert; Visser, Richard G. F.

CS Dep. Plant Breeding, Wageningen Agricultural Univ., Wageningen, 6700 AJ, Neth.

SO Plant Mol. Biol. (1994), 26(6), 1759-73

CODEN: PMBIDB; ISSN: 0167-4412

DT Journal

LA English

L12 ANSWER 29 OF 42 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 1994:177300 BIOSIS

DN PREV199497190300

TI Formation and Deposition of Amylose in the Potato Tuber Starch Granule Are  
Affected by the \*\*\*Reduction\*\*\* of Granule-Bound Starch Synthase Gene  
Expression.

AU Kuipers, Anja G. J.; Jacobsen, Evert; Visser, Richard G. F. (1)

CS (1) Dep. Plant Breeding, Wageningen Agricultural University, P.O. Box 386,  
NL-6700 AJ Wageningen Netherlands

SO Plant Cell, (1994) Vol. 6, No. 1, pp. 43-52.

ISSN: 1040-4651.

DT Article

LA English

L12 ANSWER 34 OF 42 CA COPYRIGHT 2002 ACS

AN 117:147326 CA

TI Field evaluation of antisense RNA-mediated inhibition of GBSS gene  
expression in potato

AU Kuipers, G. J.; Vreem, J. T. M.; Meyer, H.; Jacobsen, E.; Feenstra, W. J.;  
Visser, R. G. F.

CS Dep. Plant Breed., Agric. Univ. Wageningen, Wageningen, NL-6700 AJ, Neth.

SO Euphytica (1991), 59(1), 83-91

CODEN: EUPHAA; ISSN: 0014-2336

DT Journal

LA English

=> d 112 14 17 20 21 24 27 29 30 ab

=> file uspatfull

=> s 16

L13 10 L4 AND L5

=> d 113 1-10

L13 ANSWER 1 OF 10 USPATFULL

AN 2001:117240 USPATFULL

TI DNA sequences coding for enzymes capable of facilitating the synthesis  
of linear .alpha.-1,4 glucans in plants, fungi and microorganisms

IN Kossmann, Jens, Golm, Germany, Federal Republic of

Buttcher, Volker, Lauenforde, Germany, Federal Republic of  
Welsh, Thomas, Berlin, Germany, Federal Republic of  
PA Plantec Biotechnologie GmbH Forschung & Entwicklung, Potsdam, Germany,  
Federal Republic of (non-U.S. corporation)  
PI US 6265635 B1 20010724 ✓ have  
WO 9531553 19951123  
AI US 1997-737752 19970227 (8)

L13 ANSWER 2 OF 10 USPATFULL  
AN 2001:105536 USPATFULL  
TI Plants which synthesize a modified starch, process for the production  
thereof and modified starch  
IN Kossmann, Jens, Golm, Germany, Federal Republic of  
Lorberth, Ruth, Berlin, Germany, Federal Republic of ✓ have  
PI US 2001007155 A1 20010705  
AI US 2000-746390 A1 20001221 (9)  
RLI Division of Ser. No. US 1998-45360, filed on 19 Mar 1998, GRANTED, Pat.  
No. US 6207880 Continuation of Ser. No. WO 1996-EP4109, filed on 19 Sep  
1996, UNKNOWN

L13 ANSWER 3 OF 10 USPATFULL  
AN 2001:103069 USPATFULL  
TI Nucleic acid molecules coding for debranching enzymes from maize ✓ have  
IN Kossman, Jens, Golm, Germany, Federal Republic of  
Willmitzer, Lothar, Berlin, Germany, Federal Republic of  
Emmermann, Michael, Bergholz Rehbrücke, Germany, Federal Republic of  
PA PlantTec Biotechnologie GmbH, Potsdam, Germany, Federal Republic of  
(non-U.S. corporation)  
PI US 6255561 B1 20010703  
AI US 1998-148680 19980904 (9)  
RLI Continuation of Ser. No. WO 1997-EP1141, filed on 6 Mar 1997

L13 ANSWER 4 OF 10 USPATFULL  
AN 2001:44437 USPATFULL  
TI Plants which synthesize a modified starch, process for the production  
thereof and modified starch  
IN Kossmann, Jens, Golm, Germany, Federal Republic of  
Lorberth, Ruth, Berlin, Germany, Federal Republic of ✓  
PA Planttec Biotechnologie GmbH, Potsdam, Germany, Federal Republic of ~~patented~~  
(non-U.S. corporation) see #2  
PI US 6207880 B1 20010327  
AI US 1998-45360 19980319 (9)  
RLI Continuation of Ser. No. WO 1996-EP4109, filed on 19 Sep 1996

L13 ANSWER 5 OF 10 USPATFULL  
AN 2001:1912 USPATFULL  
TI Starch branching enzyme II of potato  
IN Ek, Bo, Bjorklinge, Sweden ✓ have  
Khosnoodi, Jamshid, Uppsala, Sweden  
Larsson, Clas-Tomas, Uppsala, Sweden  
Larsson, H.ang.kan, Uppsala, Sweden  
Rask, Lars, Uppsala, Sweden  
PA Amylogene HB, Svalov, Sweden (non-U.S. corporation)  
PI US 6169226 B1 20010102  
AI US 1998-87277 19980529 (9)  
RLI Continuation of Ser. No. WO 1996-SE1558, filed on 28 Nov 1996

L13 ANSWER 6 OF 10 USPATFULL  
AN 2000:153911 USPATFULL  
TI Inhibition of gene expression  
IN Poulsen, Peter, Copenhagen, Denmark  
PA Danisco A/S, Copenhagen, Denmark (non-U.S. corporation) ✓ have  
PI US 6147279 20001114

WO 9704112 19970206  
AI US 1997-981803 19970417 (8)

L13 ANSWER 7 OF 10 USPATFULL

AN 2000:106076 USPATFULL

TI High amylose starch from transgenic potato plants

IN Cooke, David, Oakley, United Kingdom

Gidley, Michael John, Raunds, United Kingdom

Jobling, Stephen Alan, Huntingdon, United Kingdom

Safford, Richard, Bedford, United Kingdom

Sidebottom, Christopher Michael, Bedford, United Kingdom

Westcott, Roger J., Wellingborough, United Kingdom

PA National Starch and Chemical Investment Holding Corporation, Wilmington,  
DE, United States (U.S. corporation)

PI US 6103893 20000815

WO 9526407 19951005

AI US 1996-716449 19960924 (8)

L13 ANSWER 8 OF 10 USPATFULL

AN 1999:128830 USPATFULL

TI Glycogen biosynthetic enzymes in plants

IN Stalker, David M., Davis, CA, United States

Shewmaker, Christine K., Woodland, CA, United States

PA Calgene, Inc., Davis, CA, United States (U.S. corporation)

PI US 5969214 19991019

AI US 1995-484434 19950607 (8)

RLI Continuation of Ser. No. US 1993-16881, filed on 11 Feb 1993 which is a  
continuation-in-part of Ser. No. US 1991-735065, filed on 24 Jul 1991,  
now patented, Pat. No. US 5349123 which is a continuation-in-part of  
Ser. No. US 1990-632383, filed on 21 Dec 1990, now abandoned And Ser.  
No. US 1991-731226, filed on 16 Jul 1991, now abandoned And a  
continuation-in-part of Ser. No. US 1990-536392, filed on 11 Jun 1990,  
now abandoned